1648

Attorney's Docket No. 9151-18

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#5
JM
10/17/02

In re: Shelness
Serial No.: 09/885,894
Filed: June 20, 2001
Group Art Unit: 1642
Examiner: Susan Ungar
For: TRUNCATED APOLIPOPROTEIN B-CONTAINING LIPOPROTEIN PARTICLES FOR DELIVERY OF COMPOUNDS TO TISSUES OR CELLS

October 2, 2002

Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Attached is a form PTO-1449, together with a copy of each identified document. This Information Disclosure Statement is submitted in accordance with 37 C.F.R. § 1.97(b), within three months of the filing date of the above-referenced application or before the mailing of a first Office Action on the merits, whichever event occurs last. Accordingly, no fee is required. The Commissioner is authorized to charge any additional fee, or credit any refund, to our Deposit Account No. 50-0220.

Respectfully submitted,

Jarett K. Abramson
Registration No. 47,376

Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on October 2, 2002.

Susan E. Freedman

Susan E. Freedman
Date of Signature: October 2, 2002

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Attorney Docket Number
9151-18

Serial No.
09/885,894

Applicants: Gregory S. Shelness

Filing Date: September 26, 2001

Group
1645

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	5,512,671	04/30/96	Piantadosi et al.	536	26.1	04/07/95
	2.	5,614,548	03/25/97	Piantadosi et al.	514	440	09/08/94
	3.	6,027,921	02/22/00	Heartlein et al.	425	69.7	03/08/98
	4.	6,177,544	01/23/01	Woo et al.	536	23.1	06/05/95

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes | No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	5.	Benita et al. (1993) "Submicron Emulsions as Colloidal Drug Carriers for Intravenous Administration: Comprehensive Physicochemical Characterization" *J. Pharm. Sci.* **82:**1069-1079.
	6.	Berton et al. (1999) "Highly loaded nanoparticulate carrier using an hydrophobic antisense oligonucleotide complex" *Eur. J. Pharm. Sci.* **9:**163-170.
	7.	Davidson et al. (2000) "Apolipoprotein B: mRNA Editing, Lipoprotein Assembly, and Presecetory Degradation" *Annu. Rev. Nutr.* **20:**169-193.
	8.	DeLozier et al. (2001) "Vesicle-binding properties of wild-type and cysteine mutant forms of α_1 domain of apolipoprotein B" *J. Lipid Res.* **42:**399-406.
	9.	Firestone et al. (1984) "Selective Delivery of Cytotoxic Compounds to Cells by the LDL Pathway" *J. Med. Chem.* **27:**1037-1043.
	10.	Hara et al. (1997) "*In vivo* gene delivery to the liver using reconstituted chylomicron remnants as a novel nonviral vector" *Proc. Natl. Acad. Sci. USA* **94:**14547-14552.

EXAMINER _____ DATE CONSIDERED

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)	Attorney Docket Number 9151-18	Serial No. 09/885,894
	Applicants: Gregory S. Shelness	
	Filing Date: September 26, 2001	Group 1645

	11.	Herscovitz et al. (1991) "Expression, secretion, and lipid-binding characterization of the N-terminal 17% of Apolipoprotein B" *Proc. Natl. Acad. Sci. USA* **88:**7313-7317.
	12.	Herscovitz et al. (2001) "The N-terminal 17% of apoB binds tightly and irreversibly to emulsions modeling nascent very low density lipoproteins" *J. Lipid Res.* **42:**51-59.
	13.	Huettinger et al. (1984) "Imaging of hepatic low density lipoprotein receptors by radionucleotide scintiscanning *in vivo*" *Proc. Natl. Acad. Sci. USA* **81:**7599-7603.
	14.	Khopade et al. (2000) "Concanavalin-A Conjugated Fine-Multiple Emulsion Loaded with 6-Mercaptopurine" *Drug Deliv.* **7:**105-112.
	15.	McLeod et al. (1994) "Carboxyl-terminal Truncation Impairs Lipid Recruitment by Apolipoprotein B100 But Does Not Affect Secretion of the Truncated Ap[olipoprotein B-containing Lipoproteins" *J. Biol. Chem.* **269:**2852-2862.
	16.	Mosley et al. (1981) "Targeted killing of cultured cells by receptor-dependent photosensitization" *Proc. Natl. Acad. Sci. USA* **78:**5717-5721.
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	18.	Samadi-Baboli et al. (1993) "Low density lipoprotein for cytotoxic drug targeting: improved activity of elliptinium derivative against B16 melanoma in mice" *Br. J. Cancer* **68:**319-326.
	19.	Shelness et al. (2001) "Very-low-density lipoprotein assembly and secretion" *Curr. Opin. Lipidol.* **12:**151-157.
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	22.	Takino et al. (1994) "Long Circulating Emulsion Carrier Systems for Highly Lipophilic Drugs" *Biol. Pharm. Bull.* **17:**121-125.
	23.	Vuaridel-Bonanomi et al. (1991) "The use of liposomes for the preparation of protein-free lipid emulsions models of chylomicron remnants" *J. Microencapsulation* **8:**203-214.
	24.	Walsh et al., "Reassembly of Low-Density Lipoproteins", Methods in Enzymology, Vol. 128, 1986, pp. 582-608
	25.	Weinberg et al. (2000) Dynamic interfacial properties of human apolipoproteins A-IV and B-17 at the air/water and oil/water interface" *J. Lipid Res.* **41:**1419-1427.
	26.	Zimmer (1999) "Antisense Oligonucleotide Delivery with Polyhexylcyanoacrylate Nanoparticles as Carriers" *Methods* **18:**286-295.

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